

Notice of Allowability

Application No.

09/336,090

UK

Applicant(s)

KASTENHOLZ ET AL.

Examiner

Art Unit

Anh-Vu H. Ly

2667

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed March 29, 2005.
2. ☒ The allowed claim(s) is/are 1-19 and 21-26 renumbered as 1-25.
3. ☒ The drawings filed on 26 February 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Paul A. Harrity on June 21, 2005.

The application has been amended as follows:

In The Claims

20. (Canceled).

Allowable Subject Matter

2. Claims 1-19 and 21-26 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art does not teach or fairly suggest an expanded interconnect module located proximate to the local interconnect modules and including coupling means for electrically coupling to the non-local I/O channels, and expanded transfer elements for transferring information, received at a plurality of speeds and formatted according to a plurality of protocols, between the local interconnect modules, as specified in independent claim 1.

The prior art does not teach or fairly suggest an expanded interconnect module including coupling means for electrically coupling to the non-local I/O channels, and expanded transfer elements for transferring information between the local interconnect modules; and redundancy

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generating means for generating an alternative version of information between transferred out of the interconnect network by generating a bit-by-bit "exclusive-or" between pairs of the groups of information words included in an information cell, as specified in independent claim 21.

The prior art does not teach or fairly suggest an expanded interconnect module including coupling means for electrically coupling to the non-local I/O channels, and expanded transfer elements for transferring information between the local interconnect modules; and quality of service means for indicating unavailability for receiving information having a particular associated priority on one or more of the local I/O channels, as specified in independent claim 22.

The prior art does not teach or fairly suggest at least one expanded interconnect module including coupling means for electrically coupling to the non-local I/O channels, and expanded transfer elements for transferring information between the local interconnect modules; and the local and the expanded transfer elements further include clumping means for substantially simultaneously transferring a plurality of the information cells, as specified in independent claim 23.

The prior art does not teach or fairly suggest an expanded interconnect module within the communication node including means for coupling to each of the local interconnect modules, and expanded transfer elements for transferring information between the local interconnect modules, thereby enabling transfer of information between the external communication channels of different ones of the selectable number of local communication modules, as specified in independent claims 24 and 25.

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The prior art does not teach or fairly suggest transferring information from one of the local interconnect modules to an I/O channel of an expanded interconnect module proximately located within the communication node in response to a non-local destination address; transferring information from the expanded interconnect module to another particular one of the local interconnect modules in response to the non-local destination address; and scaling bandwidth of the interconnect network by including a selectable number of the local interconnect modules in the plurality of local interconnect modules, as specified in independent claim 26.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H. Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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CHI PHAM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 00

6/27/05